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(75) Erfinder/Anmelder (nur für US): MATTINGER, Detlef  
[DE/DE]; Am Mühlgraben 5, 64404 Bickenbach (DE).  
SCHEUNERT, Peter [DE/DE]; Eichenweg 20, 64807  
Dieburg (DE).

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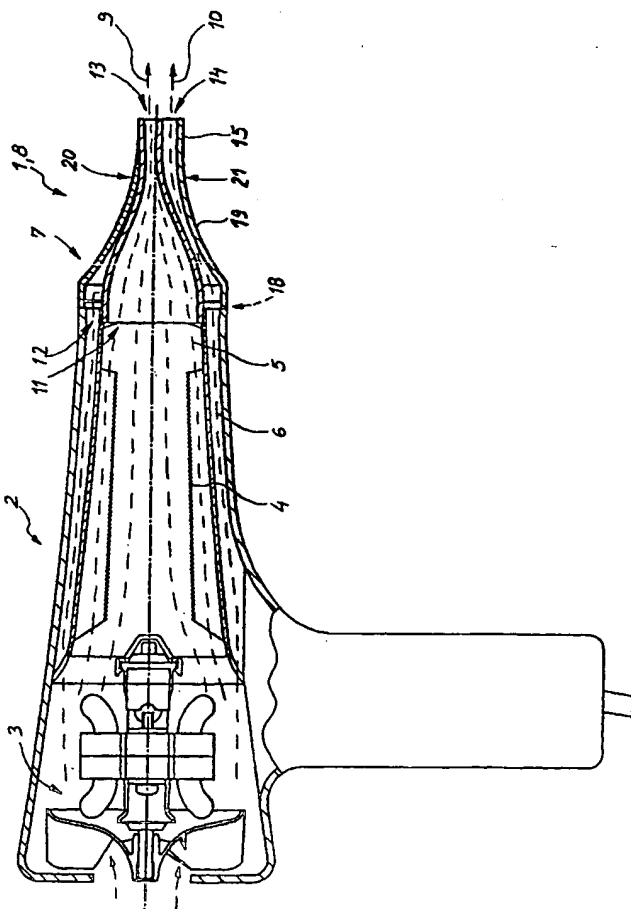
(71) Anmelder (für alle Bestimmungsstaaten mit Ausnahme von  
US): WELLA AKTIENGESELLSCHAFT [DE/DE];  
Abt. RP, Berliner Allee 65, 64274 Darmstadt (DE).

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(54) Title: DEVICE FOR A HOT AIR SHOWER

(54) Bezeichnung: VORRICHTUNG FÜR EINE WARMLUFTDUSCHE



(57) **Abstract:** Disclosed is a device (1) for a hot air shower (2), comprising a fan (3) and a heating unit (4) for creating a central hot air jet (5) and a cold air jet (6) that is concentric thereto at a blow-out port (7). The device (1) is embodied as an air nozzle cap (8) that can be connected to the blow-out port (7) such that the air nozzle cap (8) creates a hot air jet (9) and an adjacent cold air jet (10) from the central hot air jet (5) and the concentric cold air jet (6) of the hot air shower (2).

(57) **Zusammenfassung:** Vorrichtung (1) für eine Warmluftdusche (2) mit einem Gebläse (3) und einer Heizung (4) zum Erzeugen eines zentralen Warmluftstrahls (5) und einem dazu konzentrischen Kaltluftstrahl (6) an einer Ausblasöffnung (7). Als Vorrichtung (1) ist ein derartiger mit der Ausblasöffnung (7) verbindbar ausgebildeter Luftdüsenaufsatz (8) vorgesehen, dass der Luftdüsenaufsatz (8) aus dem zentralen Warmluftstrahl (5) und dem konzentrischen Kaltluftstrahl (6) der Warmluftdusche (2) einen nebeneinander angeordneten Warmluftstrahl (9) und einen Kaltluftstrahl (10) erzeugt.

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# HAIR DRYER

5           The invention relates to a device for a hair dryer,  
having a fan and a heater, for generating a central hot-air  
stream and a concentric cold-air stream at a blower opening.

10           A hair dryer of this kind, for instance for drying or  
otherwise treating hair on the head, is known for instance  
from German Utility Model DE9001199U1. In it, a concentric  
cold-air stream from a blower opening of a hair dryer is  
meant to prevent the scalp from becoming excessively hot from  
15           the hot-air stream. A disadvantage here is that the  
concentric cold-air stream simultaneously strikes the hair on  
the head as well, which leads to unwanted cooling.

20           The object of the invention is therefore to create a  
device of this same generic type which does not have the  
aforementioned disadvantages and is simple in construction  
and can be produced economically.

25           This object is attained by the provisions of the body  
of claim 1. Further features of the invention will become  
apparent from the dependent claims.

          The invention will be described in further detail in  
terms of an exemplary embodiment.

30           Shown are:

          Fig. 1, in a side view in section, a hair dryer with a  
device embodied as an air nozzle attachment;

35           Fig. 2, in an axial end view on the air nozzle  
attachment, the hair dryer of Fig. 1;

Fig. 3, in a sectional fragmentary view, the front region of the hair dryer of Fig. 1, but without an air nozzle attachment;

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Figs. 4 through 6, in various, slightly enlarged views, the air nozzle attachment as an individual part; and

Fig. 7, in a sectional side view, a further air nozzle  
10 attachment for only hot air.

Figs. 1 through 6 show a device 1 for a hair dryer 2, having a fan 3 and a heater 4 for generating a central hot-air stream 5 and a concentric cold-air stream 6 at a blower opening 7, and in the region of the heater 4, the hot-air stream 9 and the cold-air stream 10 are separated by a partition 22. As the device 1, an air nozzle attachment 8 embodied as connectable to the blower opening 7 is provided of a kind such that the air nozzle attachment 8, from the  
20 central hot-air stream 5 and the concentric cold-air stream 6 of the hair dryer 2, generates a hot-air stream 9 and a cold-air stream 10 that are located side by side. The air nozzle attachment 8, on the end with the blower opening 7, has a central conduit entrance 11 and a coaxial conduit entrance 25 12, and the central conduit entrance 11 discharges into a hot-air nozzle 13 and the coaxial conduit entrance 12 discharges into a cold-air nozzle 14, and the hot-air nozzle 13 and the cold-air nozzle 14 are located side by side. The central conduit entrance 11 and the coaxial conduit entrance  
30 12 are joined together by means of connecting struts 24.

The hot-air nozzle 13 and the cold-air nozzle 14 are each designed as a flat nozzle 15 and are each located with one flat side against one another; the hot-air nozzle 13 and

the cold-air nozzle 14 have at least approximately the same blower cross section 16, 17.

Because the hot-air nozzle 13 has a smaller blower cross section 16 than the blower cross section 17 of the cold-air nozzle 14, very good cooling of a scalp is attained.

For practical reasons, the hot-air nozzle 13 and the cold-air nozzle 14 end at the same length.

Because the air nozzle attachment 8 is embodied as being axially rotatably connectable in the region of the blower opening 7, the air nozzle attachment 8 can be positioned in any angular position, simplifying manipulation of the hair dryer 2 such that areas of the hair on the side of the head, especially, can be treated optimally and in an aimed manner with the air nozzle attachment 8.

The air nozzle attachment 8 is connectable with the region of the blower opening 7 by means of a snap-on connection 18, which is known per se and not shown in further detail, that can be detached again.

For reasons of cost, the air nozzle attachment 8 comprises heat-resistant plastic 19.

For simple visual monitoring of the air nozzle attachment 8 adjusted to a particular angle of rotation, the outer parts of the hot-air nozzle 13 and of the cold-air nozzle 14 are identified visually differently, for instance by providing that the outer part 20 of the hot-air nozzle 13 is identified by a red color, and the outer part 21 of the cold-air nozzle 14 is identified by a blue color.

Fig. 7 shows a further air nozzle attachment 23, for a hot-air stream 9 only. Because a hot-air nozzle attachment 23 is provided for the air nozzle attachment 8 for selective dampening, it is selectively possible to generate solely a hot-air stream 9 with the hair dryer 2. The solely hot-air stream 9 is generated by providing that the blower opening 7 of the concentric cold-air stream 6 is closed by the air nozzle attachment 8, and allows only the hot-air stream 9 to pass through it.

List of Reference Numerals:

	1	Device
5	2	Hair dryer
	3	Fan
	4	Heater
	5	Central hot-air stream
	6	Concentric cold-air stream
10	7	Blower opening
	8	Air nozzle attachment
	9	Hot-air stream
	10	Cold-air stream
	11	Central conduit entrance
15	12	Coaxial conduit entrance
	13	Hot-air nozzle
	14	Cold-air nozzle
	15	Flat nozzle
	16	Blower cross section of hot-air nozzle
20	17	Blower cross section of cold-air nozzle
	18	Snap-on connection
	19	Plastic
	20	Outer part of hot-air nozzle
	21	Outer part of cold-air nozzle
25	22	Partition
	23	Hot-air nozzle attachment
	24	Connecting strut